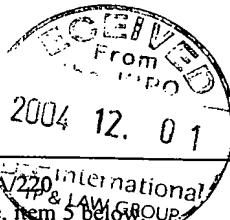


## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)



Applicant's or agent's file reference FPC04014-PCT	<b>FOR FURTHER ACTION</b>		see Form PCT/ISA/210 as well as, where applicable, item 5 below International Search Report & LAW GROUP
International application No. <b>PCT/KR2004/001897</b>	International filing date (day/month/year) <b>28 JULY 2004 (28.07.2004)</b>	(Earliest) Priority Date (day/month/year) 30 JULY 2003 (30.07.2003)	
Applicant <b>LG CHEM, LTD. et al</b>			

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b.  With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2.  **Certain claims were found unsearchable** (See Box No. II)

3.  **Unity of invention is lacking** (See Box No. III)

4. With regard to the **title**,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 1

as suggested by the applicant.

because the applicant failed to suggest a figure.

because this figure better characterizes the invention.

b.  none of the figure is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2004/001897

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7 H01M 4/48

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 H01M4/02 H01M4/58 H01M10/40

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Korean Patents and Application for Invention since 1975  
Korean Utility Models and Application for Utility Models since 1975Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
NPS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP07-192721 A(Sanyo Electric Co Ltd) 28 July 1995 See Abstract	1-6
A	JP12-40505 A(Mitsubishi Ind Ltd) 8 February 2000 See Abstract	1-6
A	JP12-173599 A(Matsushita Electric Ind Co Ltd) 23 June 2000 See Abstract	1-6

 Further documents are listed in the continuation of Box C. See patent family annex.

## \* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

23 NOVEMBER 2004 (23.11.2004)

Date of mailing of the international search report

23 NOVEMBER 2004 (23.11.2004)

Name and mailing address of the ISA/KR

 Korean Intellectual Property Office  
920 Dunsan-dong, Seo-gu, Daejeon 302-701,  
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

KIM, Jun Hak



Telephone No. 82-42-481-5785